Section 10-1 DNA

1. What does DNA stand for?

Deoxyribonucleic acid

2. What is DNA's primary function?

Carry genetic material

3. What is the function of proteins?

Everywhere in body, as enzymes, parts of muscle, skin, hair, hormones

4. What are the repeating subunits called that make up DNA?

Nucleotides (sugar, phosphate, nitrogenous base)

5. Name the 3 parts of a DNA nucleotide.

Pentose Sugar (deoxyribose), phosphate group, nitrogenous base

6. Sketch and label a DNA nucleotide.

7. Name the 4 nitrogen bases on DNA.

Adenine, Thymine, Guanine, Cytosine

8. What is the difference between a purine & a pyrimidine?

Purines have a double ring (adenine and guanine)

Pyrimidines have a single ring (thymine and cytosine)

9. Name 2 purines.

Adenine and guanine

10. Name 2 pyrimidines.

Thymine and cytosine

11.Who is responsible for determining the structure of the DNA molecule & in what year was this done?

Watson and Crick

Biology Protein Synthesis 13 2 Answer Key

Biology Protein Synthesis 13 2

Biology Protein Synthesis 13 2
Ribosomes and Protein Synthesis The Molecular Basis of Heredity One of the most interesting discoveries of molecular biology is the near- universal nature of the genetic code.

Miller & Levine - 13.2 (protein synthesis) - Google Slides
Ribosomes and Protein Synthesis 13.2 Ribosomes and Protein Synthesis I CAN: 1.Explain how the genetic code is read. 2.Distinguish between a codon and an anticodon. 3.Use an amino acid table to translate the genetic code from mRNA into an amino acid sequence. 4.Explain the steps in the process of translation. Ribosomes and Protein Synthesis

13-2 Ribosomes And Protein Synthesis [pnxk0rpgq14v]
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13.2 Ribosomes and Protein Synthesis Lesson Objectives Identify the genetic code and explain how it is read. Summarize the process of translation. Describe the “central dogma” of molecular biology. Lesson Summary The Genetic Code A specific sequence of bases in DNA carries the directions for forming a polypeptide, a chain of amino acids. The types and order of amino acids in a polypeptide ...

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13 biology 2 protein synthesis 0 Flashcards and Study Sets ...
Biology Reading Notes Outline Name:_____ Chapter 13: RNA and Protein Synthesis Period: _____ Date: _____ Read Chapter 13. As you do so, take notes on the following topics on a separate piece of notebook paper. You will have to study these for tests, so do not just “answer” the topic questions below-write out the info in an outline format that contains the detail needed to understand what ...

Chapter 13 RNO.doc - Biology Reading Notes Outline Chapter ...
8.2.3 Protein Synthesis Inhibitors. Protein synthesis inhibitors represent another major group of clinically useful antibacterials, such as erythromycin, tetracycline, chloramphenicol, and aminoglycosides. They selectively interact with the 70S bacterial ribosome and spare the 80S eukaryotic ribosome particle. Macrolide, lincosamide Figure 8-4D), and streptogramins (Figure 8-4E) (MLS ...

Protein Synthesis Inhibitor - an overview | ScienceDirect ...
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Biology Protein Synthesis 13 2 Answer Key
00:16:50.13 that are going to be evaluated by the protein synthesis machinery 00:16:52.17 to decide how efficiently to make these proteins. 00:16:56.24 So, there are the messenger RNA building blocks, 00:16:58.18 and finally we get to the ribosome. 00:17:00.04 The ribosome is the enzyme 00:17:01.26 that catalyzes protein synthesis,

Protein Synthesis • iBiology
M.L. Nelson, M.Y. Ismail, in Comprehensive Medicinal Chemistry II, 2007. 7.20.5.2.7 Tetracyclines and other microbes. Lipophilic tetracyclines are more active against a wide variety of parasites including Giardia lamblia, 105 Entamoeba histolytica, 106 and Cryptosporidium parvum. 70 Cell-free extracts of Giardia showed that all tetracyclines retain similar protein synthesis inhibition activity ...

Protein Synthesis Inhibition - an overview | ScienceDirect ...
13.2 Ribosomes and Protein Synthesis The genetic code is read three “letters” at a time, so that each “word” is three bases long and corresponds to a single amino acid. Ribosomes use the sequence of codons in mRNA to assemble amino acids into polypeptide chains.

RNA and Protein Synthesis (Chapter 13) - wedgwood science
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Explore the steps of transcription and translation in protein synthesis! This video explains several reasons why proteins are so important before explaining ...

Protein Synthesis (Updated) - YouTube
13.2 Ribosomes and Protein Synthesis THINK ABOUT IT ... Molecular biology seeks to explain living organisms by studying them at the molecular level, using molecules like DNA and RNA. There are many exceptions to this “dogma,” but it serves as a useful generalization that helps explain _____. Gene _____ is the way in which DNA, RNA, and proteins are involved in putting genetic information ...

13.2 Ribosomes and Protein Synthesis
In this video, we continue looking at how proteins are synthesised in cells. We focus on proteins which are secreted such as antibodies and hormones. These p...

A Level Biology Revision Protein Synthesis 2 - YouTube
1. Relate protein synthesis and its two major phases to the central dogma of molecular biology. 2. Identify the steps of transcription, and summarize what happens during each step. 3. Explain how mRNA is processed before it leaves the nucleus. 4. Describe what happens during the translation phase of protein synthesis. 5. What additional ...

Protein Synthesis - CK12-Foundation
Learn about the steps of protein synthesis in this video! I'll break down transcription, translation and the key players in the process of making protein.

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